SCHULADUR® PCR GF 45

(PBT+PET)-GF45... LyondellBasell Industries

Product Texts

45% glass fibre reinforced PBT with post consumer PET

For high surface quality choose upper temperature limits.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**11**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**2.16**	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**15500**	MPa	ISO 527
[C] Stress at break	**160**	MPa	ISO 527
[C] Strain at break	**1.7**	%	ISO 527
[C] Charpy impact strength, +23°C	**50**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**50**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**8**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**8**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**208**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**225**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**198**	°C	ISO 306
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.2**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning rate, FMVSS, Thickness 1 mm	**25**	mm/min	ISO 3795 (FMVSS 302)

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Humidity absorption	**0.25**	%	Sim. to ISO 62
[C] Density	**1680**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**260 - 290**	°C	-
Mold temperature	**80 - 90**	°C	-

Characteristics

Processing
Injection Molding

Additives
Release agent

Delivery form
Granules

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING; **Pretreatment**
Predrying: 2-4h /120°C (Feuchte

PROCESSING ;**Processing:**

Melttemperature	260 - 290	°C
Mouldtemperature	80 - 90 (120)	°C